

PCDHGA5 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP18382a

Product Information

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| Application | WB, E |
| Primary Accession | Q9Y5G8 |
| Other Accession | NP_061741.1 |
| Reactivity | Human |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | Rabbit IgG |
| Clone Names | RB38324 |
| Calculated MW | 100935 |
| Antigen Region | 254-280 |

Additional Information

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|--------------------|--|
| Gene ID | 56110 |
| Other Names | Protocadherin gamma-A5, PCDH-gamma-A5, PCDHGA5 |
| Target/Specificity | This PCDHGA5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 254-280 amino acids from the N-terminal region of human PCDHGA5. |
| Dilution | WB~~1:1000 E~~Use at an assay dependent concentration. |
| Format | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| Storage | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| Precautions | PCDHGA5 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures. |

Protein Information

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| Name | PCDHGA5 |
| Function | Potential calcium-dependent cell-adhesion protein. May be involved in the establishment and maintenance of specific neuronal connections in the brain. |
| Cellular Location | Cell membrane; Single-pass type I membrane protein |

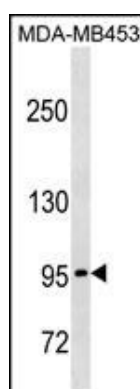
Background

This gene is a member of the protocadherin gamma gene cluster, one of three related clusters tandemly linked on chromosome five. These gene clusters have an immunoglobulin-like organization, suggesting that a novel mechanism may be involved in their regulation and expression. The gamma gene cluster includes 22 genes divided into 3 subfamilies. Subfamily A contains 12 genes, subfamily B contains 7 genes and 2 pseudogenes, and the more distantly related subfamily C contains 3 genes. The tandem array of 22 large, variable region exons are followed by a constant region, containing 3 exons shared by all genes in the cluster. Each variable region exon encodes the extracellular region, which includes 6 cadherin ectodomains and a transmembrane region. The constant region exons encode the common cytoplasmic region. These neural cadherin-like cell adhesion proteins most likely play a critical role in the establishment and function of specific cell-cell connections in the brain. Alternative splicing has been described for the gamma cluster genes.

References

- Wu, Q., et al. *Genome Res.* 11(3):389-404(2001)
Nollet, F., et al. *J. Mol. Biol.* 299(3):551-572(2000)
Yagi, T., et al. *Genes Dev.* 14(10):1169-1180(2000)
Wu, Q., et al. *Proc. Natl. Acad. Sci. U.S.A.* 97(7):3124-3129(2000)
Wu, Q., et al. *Cell* 97(6):779-790(1999)

Images



PCDHGA5 Antibody (N-term) (Cat. #AP18382a) western blot analysis in MDA-MB453 cell line lysates (35ug/lane). This demonstrates the PCDHGA5 Antibody detected the PCDHGA5 protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.